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## **Important Safety Instructions**

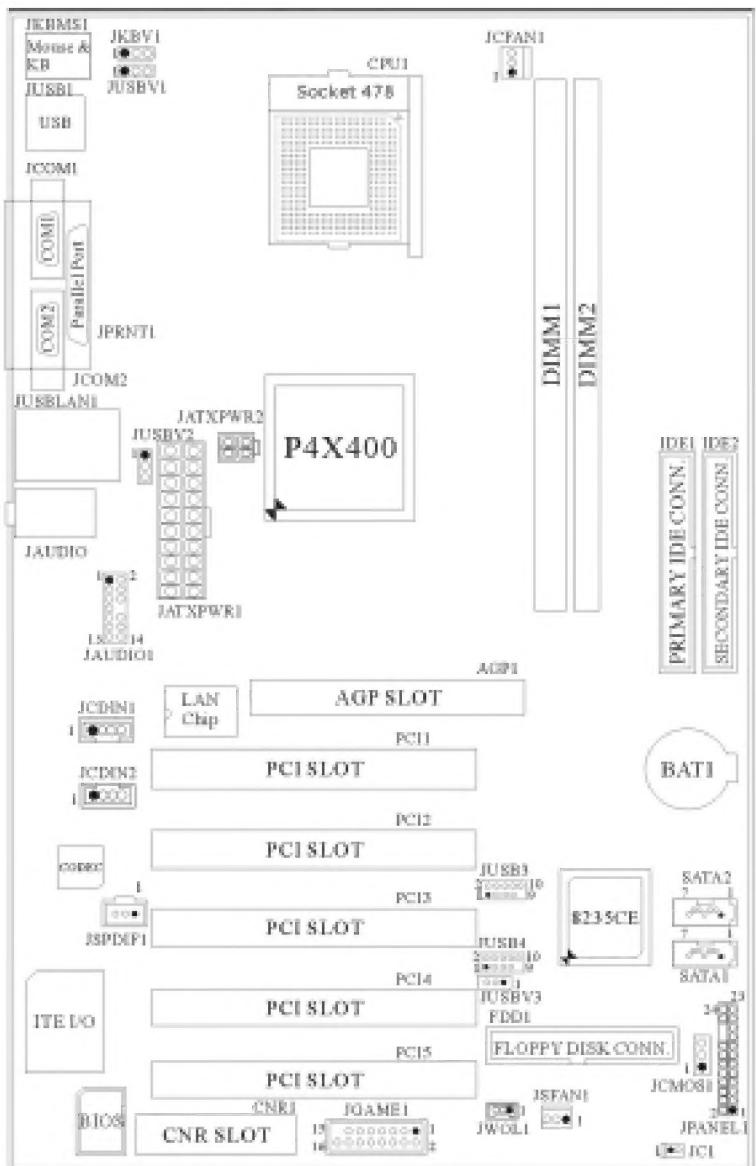
1. Please read the safety instructions carefully.
  2. Please keep this User's Manual for future reference.
  3. Don't use liquid or sprayed detergent for cleaning.
  4. Please keep this equipment away from humidity.
  5. Lay this equipment on a reliable surface when installing. A drop or fall could cause injury.
  6. Do not leave this equipment in an environment unconditioned, and storage temperature above 40°C may damage the equipment.
  7. Make sure the voltage of the power source when connect the equipment to the power outlet.
  8. Place the power cord such a way that people will not step on it. Do not place anything over the power cord.
  9. Always unplug the power cord before inserting any add-on card or module.
  10. All cautions and warnings on the equipment should be noted.
  11. Never pour any liquid into the opening that could damage or cause electrical shock.
  12. If any of the following situations occurs, get the equipment checked by a service personnel:
    - The power cord or plug is damaged.
    - Liquid has penetrated into the equipment.
    - The equipment has been exposed to moisture.
    - The equipment has not work well or you cannot get it work according to User's Manual.
    - The equipment has dropped and damaged.
    - The equipment has an obvious sign of breakage.
  13. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacture
-

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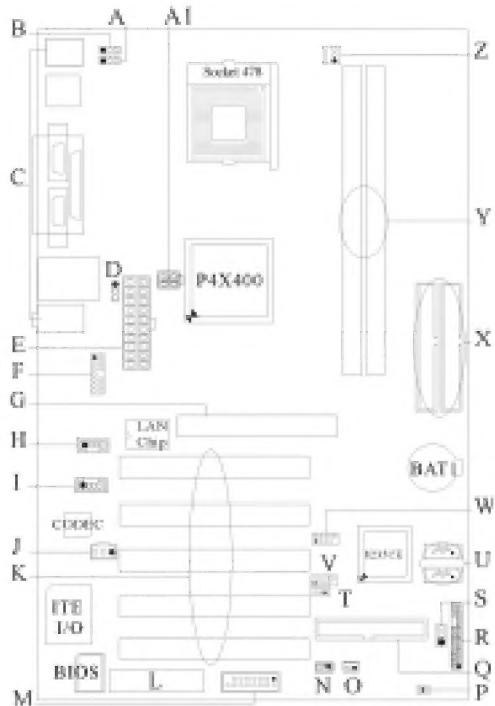
## Layout of U8798 Pro



\*NOTE: ● represents the first pin.

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# English

## 1. U8798 Pro Features

### A. Hardware

#### CPU

- Provides Socket 478.
- Supports the Intel® processor.
- Front Side Bus at 400/533 MHz.

#### Chipset

- North Bridge: VIA P4X400
- South Bridge: VIA VT8235.

#### Main Memory

- Supports up to 2 DDR devices.
- Supports 200/266/333/400 MHz DDR devices.
- Maximum memory size of 2GB.

#### Super I/O

- Chip: ITE IT8705.

#### Slots

- Five 32- PCI bus master slots.
- One AGP slot.
  - supports AGP4X/ AGP8X.
- One CNR slot.

#### On Board IDE

- Supports four IDE disk drives.
- Supports PIO Mode 4, Bride Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

#### On Board AC'97 Sound Codec

- Chip: CMI9739A
- Compliant with AC'97 specification.
- AC'97 2.2 interface.
- Supports 6 channels.

#### On Board Peripherals

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 2 serial ports.
- 1 parallel port. (SPP/EPP/ECP mode)
- 1 vertical audio port.
- 1 LAN port.
- PS/2 mouse and PS/2 keyboard.

- 
- Supports 6 USB2.0 ports. (front\*2 + rear\*4)

#### Dimensions

- ATX Form Factor: 20.5 X 30.5cm. (W X L)

## B. BIOS & Software

### BIOS

- Award legal Bios.
- APM1.2.
- ACPI.
- USB Function.

### Software

- Supports Warpspeeder™, 9th Touch™, FLASHER™, WinFlasher™ and StudioFun! (optional).
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## 2. Package contents

- HDD Cable X1
- FDD Cable X1
- User's Manual X1
- USB Cable X1 (optional)
- Rear I/O Panel for ATX Case X1 (optional)
- Fully Setup Driver CD X1
- StudioFun! Application CD X1 (optional)

## 3. How to setup Jumper

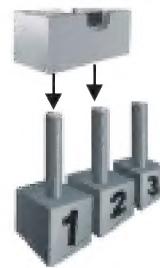
The illustration shows how jumpers are setup. When the Jumper cap is placed on pins, the jumper is "**close**". If no jumper cap is placed on the pins, the jumper is "**open**". The illustration shows a 3-pin jumper whose pin 1and 2 are "**close**" when jumper cap is placed on these 2 pins.



Jumper close



Jumper open



Pin 1-2 close

---

## 4. CPU Installation

**Step1:** Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

**Step2:** Look for the white dot/cut edge. The white dot/cut edge should point towards the lever pivot. The CPU will fit only in the correct orientation.

**Step3:** Hold the CPU down firmly, and then close the lever.

**Step4:** Put the CPU fan on the CPU and buckle it. Connect the CPU fan power cable to the JCFAN1. This completes the installation.



**CPU Fan Headers: JCFAN1**

JCFAN1	Pin No.	Assignment
	1	Ground
	2	+12V
	3	FAN rpm Rate Sense

**System Fan Headers: JSFAN1**

JSFAN1	Pin No.	Assignment
	1	Ground
	2	+12V

---

## 5. DDR DIMM Modules: DIMM1/ DIMM2

DRAM Access Time: 2.5V Unbuffered DDR 200/266/333/400 MHz Type required.

DRAM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

### Total Memory Size with Unbuffered DIMMs

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DIMM1	64MB/128MB/256MB/512MB/1GB *1	Max is 2GB
DIMM2	64MB/128MB/256MB/512MB/1GB *1	

\*\*\*Only for reference\*\*\*

### Installing DDR Module

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.
2. Insert the DIMM firmly and vertically into the slot until the retaining chip snap back in place and the Dimm is properly seated.



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## 6. Jumpers, Headers, Connectors & Slots

### (1) Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

### (2) Hard Disk Connectors: IDE1/ IDE2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/ 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

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### (3) Peripheral Component Interconnect Slots: PCI 1-5

This motherboard is equipped with 5 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

### (4) Accelerated Graphics Port Slot: AGP

Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.

### (5) Communication Network Riser Slot: CNR1

The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports modem only.

### (6) Serial ATA Connector: JSATA1/ JSATA2 (optional)

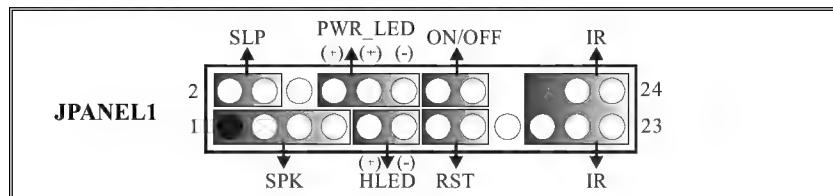
The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and can transfer data with 1.5GHz speed.

JSATA1/ JSATA2	Pin	Assignment	Pin	Assignment
	1	Ground	2	TX+
	3	TX-	4	Ground
	5	RX-	6	RX+
	7	Ground		

### (7) Game Header: JGAME1

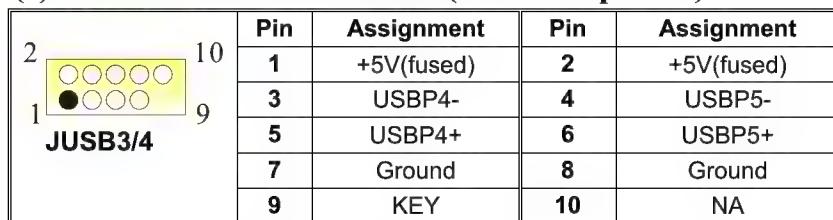
JGAME1			
Pin	Assignment	Pin	Assignment
1	+5V	2	+5V
3	Joystick B Button 1	4	Joystick A Button 1
5	Joystick B Coordinate X	6	Joystick A Coordinate X
7	MIDI Output	8	Ground
9	Joystick B Coordinate Y	10	Ground
11	Joystick B Button 2	12	Joystick A Coordinate Y
13	MIDI Input	14	Joystick A Button 2
15	NA	16	+5V

## (8) Front Panel Connector: JPANEL1



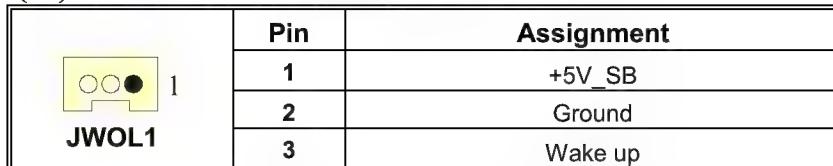
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep Control	Sleep
3	NA		4	Ground	Button
5	NA		6	NA	NA
7	Speaker		8	Power LED (+)	POWER LED
9	HDD LED (+)	Hard Drive LED	10	Power LED (+)	
11	HDD LED (-)		12	Power LED (-)	
13	Ground	Reset Button	14	Power Button	Power-on Button
15	Reset Control		16	Ground	
17	NA		18	KEY	
19	NA	IrDA Connector	20	KEY	IrDA Connector
21	+5V		22	Ground	
23	IRTX		24	IRRX	

## (9) Front USB Header: JUSB3/ (JUSB4→optional)



Pin	Assignment	Pin	Assignment
1	+5V(fused)	2	+5V(fused)
3	USBP4-	4	USBP5-
5	USBP4+	6	USBP5+
7	Ground	8	Ground
9	KEY	10	NA

## (10) Wake On LAN Header: JWOL1



Pin	Assignment
1	+5V_SB
2	Ground
3	Wake up

---

### (11) Power Connectors: JATXPWR1

	<b>PIN</b>	<b>Assignment</b>	<b>PIN</b>	<b>Assignment</b>
10	1	+3.3V	11	+3.3V
	2	+3.3V	12	-12V
	3	Ground	13	Ground
	4	+5V	14	PS_ON
	5	Ground	15	Ground
	6	+5V	16	Ground
	7	Ground	17	Ground
	8	PW_OK	18	-5V
	9	Standby Voltage +5V	19	+5V
	10	+12V	20	+5V

	<b>PIN</b>	<b>Assignment</b>	<b>PIN</b>	<b>Assignment</b>
2	1	+12V	3	Ground
4	3	+12V	4	Ground

### (12) Front Panel Audio Header: JAUDIO1

<b>Pin</b>	<b>Assignment</b>	<b>Pin</b>	<b>Assignment</b>
1	Mic In/ Center	2	Ground
3	Mic Power/ Bass	4	Audio Power
5	Right Line Out/ Speaker Out Right	6	Right Line Out/ Speaker Out Right
7	Reserved	8	Key
9	Left Line Out/ Speaker Out Left	10	Left Line Out/ Speaker Out Left
11	Right Line In/ Rear Speaker Right	12	Right Line In/ Rear Speaker Right
13	Left Line In/ Rear Speaker Left	14	Left Line In/ Rear Speaker Left

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### (13) Power Source Selection for Keyboard\Mouse: JKBV1

JKBV1	Assignment	Description
1  3 Pin 1-2 close	+5V	+5V for keyboard and mouse
1  3 Pin 2-3 close	+5V Standby Voltage	PS/2 Mouse and PS/2 Keyboard are powered with +5V standby voltage

*Note: In order to support this function "Power-on the system via keyboard and mouse, "JKBV1" jumper cap should be placed on pin 2-3.*

### (14) Power Source Selection for USB: JUSBV1/ JUSBV2/ JUSBV3

JUSBV1/JUSBV2/ JUSBV3	Assignment	Description
1  3 Pin 1-2 close	+5V	JUSBV1: 5V for USB located at the JUSB1 connector port JUSBV2: 5V for USB located at the JUSBLAN1 connector port JUSBV3: 5V for USB located at the JUSB3/4 connector ports
1  3 Pin 2-3 close	+5V Standby Voltage	JUSBV1: JUSB1 port powered with standby voltage of 5V JUSBV2: JUSBLAN1 port powered with standby voltage of 5V JUSBV3: JUSB3/4 port powered with standby voltage of 5V

*Note: In order to support this function "Power-on the system via USB device, "JUSBV1/JUSBV2/JUSBV3" jumper cap should be placed on pin 2-3 respectively.*

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### (15) Clear CMOS Jumper: JCMOS1

JCMOS1	Assignment
 Pin 1-2 Close	Normal Operation (default)
 Pin 2-3 Close	Clear CMOS Data



The following procedures are for resetting the BIOS password. It is important to follow these instructions closely.

#### \* Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on AC.
6. Reset your desired password or clear the CMOS data.

### (16) Case Open Connector: JC1

JC1	Pin	Assignment
	1	Case Open Signal
	2	Ground

### (17) CD-ROM Audio-In Header: JCDIN1/ (JCDIN2→optional)

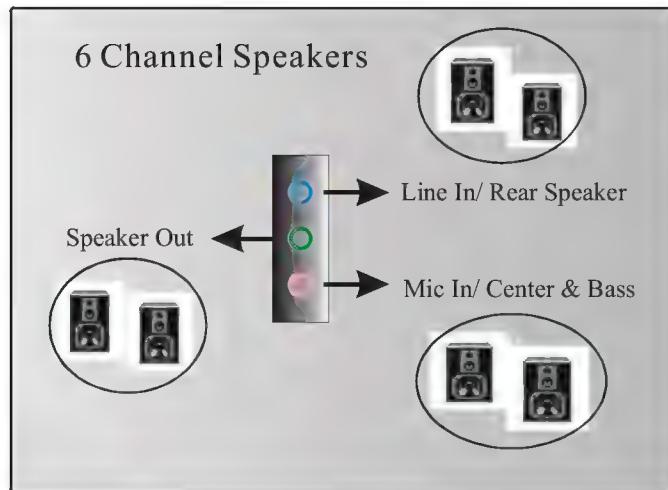
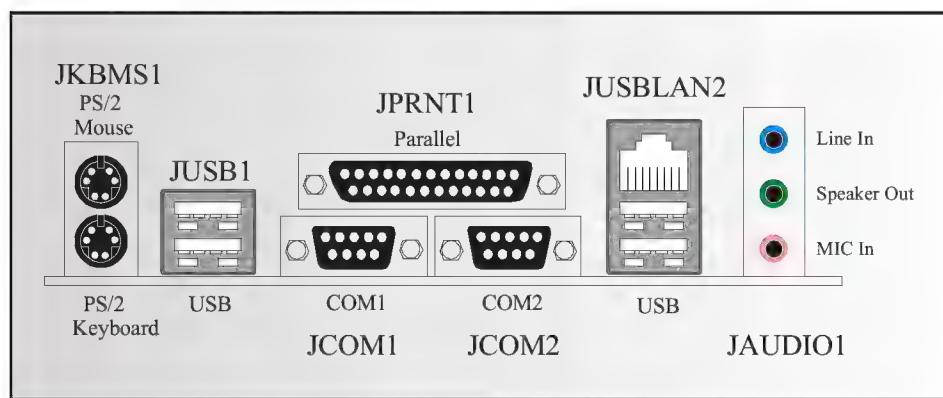
JCDIN1/ JCDIN2	Pin	Assignment
	1	Left Channel Input
	2	Ground
	3	Ground
	4	Right Channel Input

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### (18) Digital Audio Connector: JSPDIF1

JSPDIF1	1	Pin	Assignment
		1	+5V
		2	SPDIF_OUT
		3	Ground

### (19) Back Panel Connectors



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## StudioFun!™

### Introduction

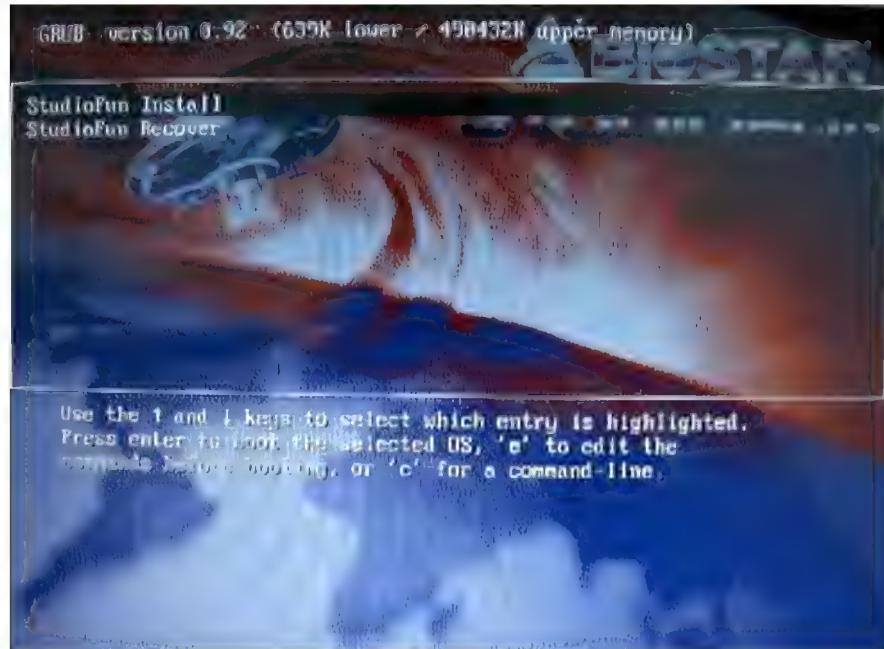
StudioFun!™ is a media-player based on optimized GNU/Linux distribution to bring a "Room Theater" experience into life. It plays DVD, VCD, MP3, Audio CD and other multimedia. Furthermore, Users can take snapshots of video and customize the saved images as screensavers or photo slideshows. Of course, the images can be stored in USB mass storage devices like flash disks and USB floppy disks.

### Hardware Requirements

The supported hardware list of StudioFun! updates regularly. So please check the "hwreq.txt" located in the root of StudioFun! Application Pack CD to get the latest supporting information.

### Installation Procedure

Insert the "StudioFun! Application Pack CD" in a CD/DVD ROM drive and let the system boot through the CD. The disk will boot and bring up the grub boot loader installation menu. Two options are specified: "StudioFun Install" and "StudioFun Recover".



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## **StudioFun! Install**

This option will do the basic installation of the distribution. The installation works on pre-installed windows or GNU/Linux distribution.

On selecting the “StudioFun Install” option the installer boots and displays a dialog box indicating the space required and waits for a confirmation. Selecting “Ok” will continue the installation while selecting “Cancel” will terminate the installation and reboot the machine.

If Windows or GNU/Linux is the only OS installed on the hard disk with no free space, it will resize the partition, either NTFS or FAT32 or ext2, and install StudioFun!. *If the hard disk has a 128MB of free space available, the installation will use the free space.*

After installing the base system you will be prompted to select the resolution from the following choices

1. 1024x768 (recommended)
2. 800x600
3. 640x480

Select the desired resolution. The default is 1024x768 for high-end graphics.

Next you will be prompted to choose the DVD area/region selection code. Choose this based on the type of DVDs you will be playing.

The installation procedure will then probe for the type of mouse installed. The distribution currently supports PS/2, USB and Serial mice. In case of serial mouse you will have to move the mouse when prompted. The other two are probed and installed automatically.

The installation procedure will now finish, the CD is ejected and a dialog box prompting to reboot the machine is displayed. Press “OK” button and enjoy StudioFun!.

### **3.1.1 Error Messages**

1. Media corrupted!! Please check the media! The CD-ROM is corrupted.
  2. Extraction of base system failed!! Please try again later!! The CD-ROM is corrupted.
  3. Unsupported hardware found, Aborting... If you try to install StudioFun! on an unsupported and undocumented hardware the above error message is popped.
  4. No device found! This error message is given if there is no hard disk in the system.
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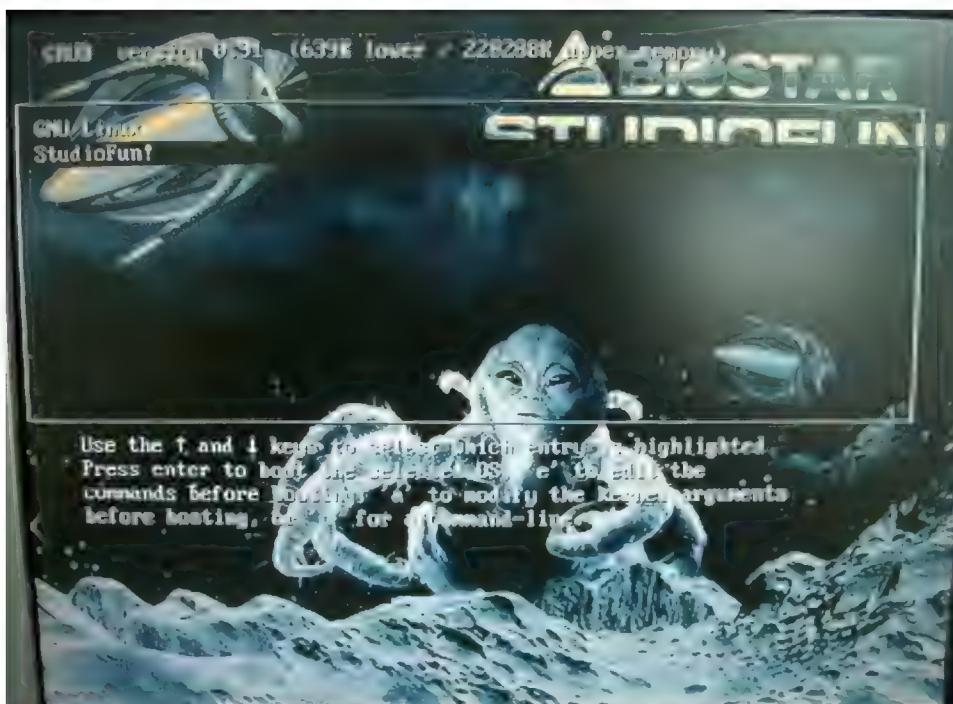
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## **StudioFun! Recover**

Where there is a MBR (Master Boot record) corruption, the "StudioFun Recover" will automatically probe the hard disk master boot record and find out the installed operating system(s). Once success, it will re-install the boot loader with correct options in the MBR. Please be noted that the newly probed one will over write any custom boot loader option specified from other GNU/Linux installations.

## **Booting to StudioFun!**

After the Installation, remove the CD from the CD-ROM and restart the system. After the rebooting, you will get the "GRUB boot loader menu screen". Select the StudioFun! Option to boot to the StudioFun! Partition.



After executing the boot up, you will see the main Desktop screen. The following section is a complete description of the Desktop application.

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## Desktop



This is the main shell of the StudioFun! software. It illustrates two main categories, one is the main "Media Control" part and the other is the "Control Panel".

## Media control

The Media Control consists of the following functionalities:

### 1. VCD

This control icon will glow whenever a VCD is detected in a DVD/CD-ROM drive. The VCD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running whereas the control will simply glow to inform the user about a VCD present in the DVD/CD-ROM drive when the Desktop is not launched.

### 2. DVD

This control will glow whenever a DVD is detected in a DVD drive. The DVD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up

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and running, otherwise, the control will simply glow to inform the user about a DVD present in the DVD/CD-ROM.

### **3. MP3**

This control will glow whenever a MP3 is detected in a DVD/CD-ROM drive. The MP3 will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a MP3 present in the DVD/CD-ROM drive.

### **4. AUDIO**

This control will glow whenever a AUDIO is detected in a DVD/CD-ROM drive. The AUDIO will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a AUDIO present in the DVD/CD-ROM drive.

### **5. FILE**

This control will glow whenever a File CD (CDs with other media type files) is detected in a DVD/CD-ROM drive. The File CD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a File CD present in the DVD/CD-ROM drive.

### **6. EJECT MEDIA**

When clicked this control, the file disk from the DVD/CDROM drives will be ejected.

### **7. EXIT**

This is the "Power on/off" control of the Desktop (StudioFun! shell).

## **Control Panel**

The Control panel part has five icons, which are shortcuts to other applications present in the StudioFun!. Tool tips will pop up once the mouse is rolled to the icons

### **1. Select Region**

Clicking this icon will invoke the application for selection DVD region settings. Refer to section 5.2 Select DVD Region application for more details.

### **2. Screensaver**

Clicking this icon will invoke the screensaver application. Refer to section 5.3 Screensaver for more details.

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### **3. Display Settings**

Clicking this icon will invoke the application for changing the screen resolutions. Refer to section 5.4, **Display Settings** for more details.

### **4. File Manager**

Clicking this icon will invoke the file manager. Refer to section 5.6 **File manager** for more details.

#### **When user has a DVD and a CD-ROM Drive, DVD Drive has the priority:**

If user has both DVD and a CD-ROM drive, DVD drive will be given the preference when both the drives hold valid media in them, i.e., if the CD-ROM drive has a media and a DVD drive also has a media, and the StudioFun! is started, the disk inside the DVD drive will be played.

#### **Other general user scenarios**

When a user clicks on any of the media-controls when it is not glowing, except the eject media and exit, the media-player will just come up and wait for user input.

## **Software Details**

### **XINE**



XINE is a multimedia player. It plays back Audio CD, DVD, and VCD. It also decodes multimedia files like AVI, MOV, WMV, and MP3 from local disk drives. It interprets most of the common multimedia formats.

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- **Features of Xine**

- a. Skinnable GUI
- b. Navigation controls (seeking, pause, fast, slow, next chapter, etc)
- c. On Screen Display (OSD) features
- d. DVD and external subtitles
- e. DVD/VCD menus (requires external plug-in)
- f. Audio and subtitle channel selection
- g. Closed Caption support
- h. Brightness, contrast, audio volume, hue, saturation adjusting requires hardware/driver support)
- i. Playlist
- j. Image snapshot
- k. Audio re-sampling
- l. Software de-interlacing algorithms
- m. Configuration dialog
- n. Aspect ratio changing
- o. Full-screen display

- **Supported File Formats**

- a. Video CD
- b. MPEG program streams (.mpg, .mpeg)
- c. ogg (.ogg) avi (.avi)
- d. asf (.ASF, .WMV)
- e. QuickTime (.mov)
- f. MPEG-Video (.mpv, .m2v)
- g. MPEG-Audio (.mp2, .mp3)
- h. WAV (.wav) Video CODEC
- i. MPEG 1/2
- j. MPEG 4 (aka OpenDivX)
- k. MS MPEG 4
- a. Chapter 5: Software Details 10
- l. Windows Media Video 7
- m. Motion JPEG

- **Remote Control Support.**

- a. Infrared interface
-

- 
- b. User-friendly

- **Usage of StudioFun! with CelomaChrome skin**

- a. Select VCD button to play a VCD disc
- b. Select DVD button to play a DVD disc
- c. Select CDDA button to play a Audio CD
- d. Select next chapter or MRL (>>|) button to play next track in Audio CD, VCD and MP3 songs and to play next chapter in DVD
- e. Select previous chapter or MRL (|<<) button to play previous track in Audio CD, VCD and MP3 songs and to play previous chapter in DVD
- f. Select slow motion (<<) button to play the video / audio in slow motion (Select play button after reaching the required position)
- g. Select fast motion (>>) button to play the video / audio in fast motion (Select play button after reaching the required position)
- h. Select subs + / - button to select the appropriate subtitle (Usable while playing)
- i. Select audio + / - button to select the appropriate audio track (For example when
- j. The DVD contains one audio track in English and the other with some other language,
- k. Usable while playing DVD's)
- l. Select "hide button" to hide the control panel of the player
- m. Select "menu" button to use menu while playing DVD
- n. Select "control" button to adjust brightness / color
- o. Select "setup" button to modify the settings of the player
- p. Select "f.scr" button to show the video output of the player in full screen mode
- q. Select "snap" button to take a snapshot of the currently playing video
- r. Select "plist" button to add / remove / manage playlist
- s. Select "mrl" button to add new file to play

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## Select Region

### Overview

Select region is a utility to set a DVD region. With the help of this application user can set or change a DVD region. Only one region can be set at a time.

### About Select Region

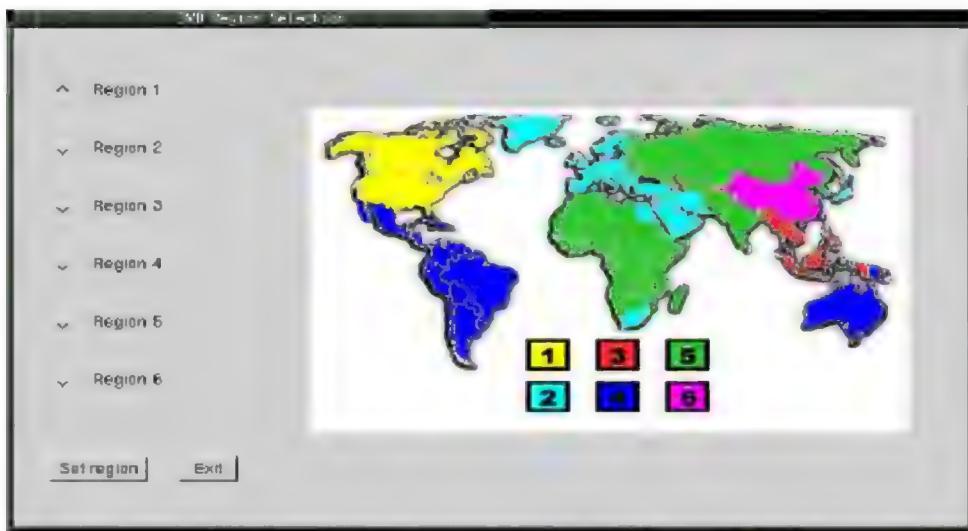
With the help of this application you can set a region for DVD. Only one region can be set at a time. If you keep the mouse pointer on any region, you can view the countries, which comes under that region.

"Ok" - Click to set the selected region.  
"Cancel" - Click to quit the application.

### How to select DVD region

You can select only one region at a time. You can change your selection by clicking on any other region.

- A snapshot of the application is shown below:



## Screensaver

### Screensaver

The xscreensaver daemon waits until the keyboard and mouse have been idle for a period, and then runs a graphics demo chosen at random. The demo is terminated as soon as there is any mouse or keyboard activity.

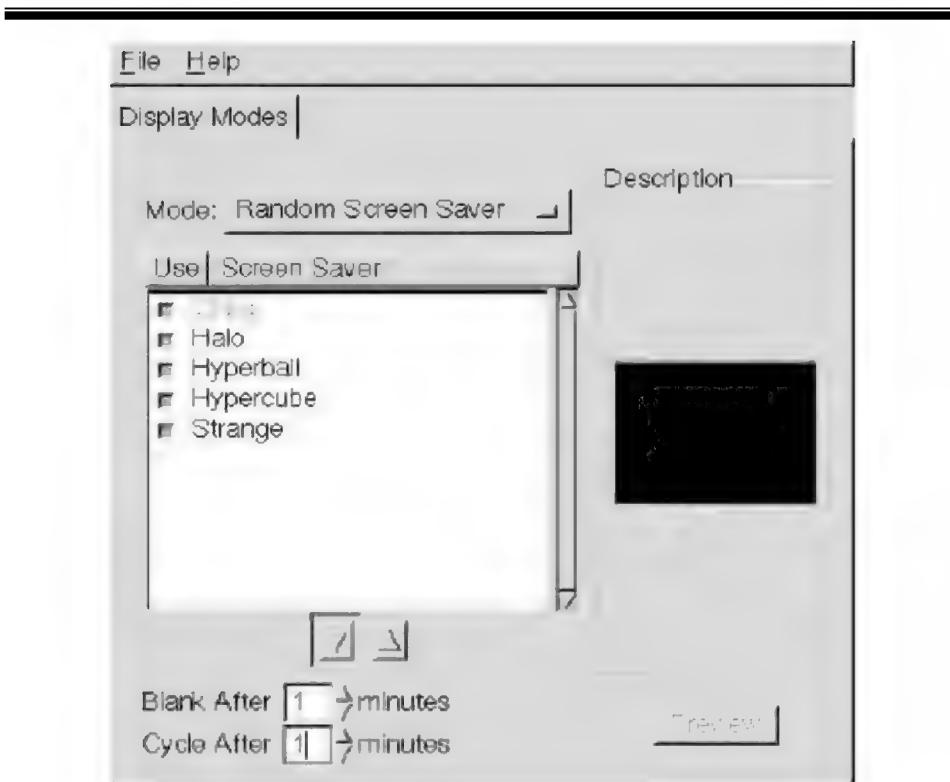
---

The xscreensaver-demo program is the graphical user interface to xscreensaver. It lets you tune the various parameters used by the xscreensaver daemon, and browse through the graphics demos.

StudioFun! comes with xscreensaver when you click on the screensaver icon the application comes up. Then user can choose various graphics demos like chbg, halo, hypercube or hyperball.

### **Screensaver comes with various options**

- Preview Option: When a user selects a particular graphics demo and clicks on preview button the demo comes up.
- Blank After Option: The screensaver will blank the screen after the keyboard and mouse have been idle default time is 1minute and user can change the settings.
- Cycle After Option: When screensaver is running this cycle time defines the time limit for each screensaver.
- Mode Screensaver comes with various modes:
  1. Random Screen Saver: When user chooses this option, Screensaver cycles through various graphics demos randomly
  2. Only one Screen Saver: When user chooses this option, screensaver displays only one graphics demo.
  3. Blank Screen Only: When user chooses this option, screensaver only blanks the screen instead of displaying the graphics demo.
  4. Disable Screen Saver: When user chooses this option, screensaver is disabled.
- Various Graphics Demos  
XScreensaver comes with various screensaver
  - Chbg: This screensaver displays the images stored in StudioFun! the time gap between images is 5 seconds.
  - Hyperball
  - Hypercube
  - Halo
  - Strange
- A snapshot of the application is shown below:



## Display Settings

### Display Settings

Display setting is a program to change the current resolution settings of the Display. By default user of StudioFun! will be given a choice to select between any of the following three resolutions.

- 640x480
- 800x600
- 1024x768

The current resolution of the Display will be selected by default. It requires restart of the StudioFun! to reflect the changes made.

## File Manager

### Overview

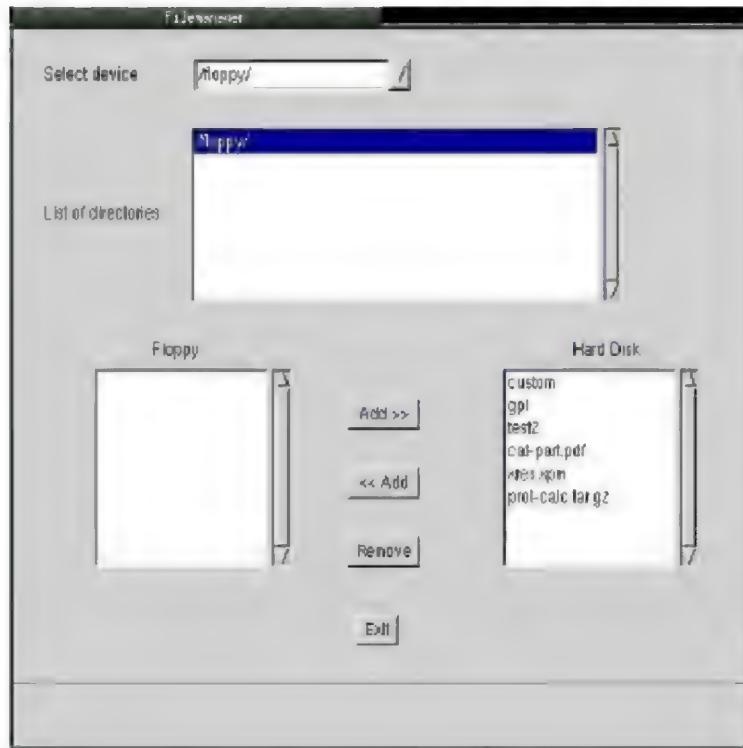
File manger is a utility to copy files from deferent devices to hard disk and vice versa. User can copy files from devices such as, floppy, CD-Rom and Flashdisk to hard disk and also from hard disk to floppy and Flashdisk.

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## About File manager

The hard disk files are stored in a directory called “/studiofun” on the hard disk. You can also delete files from hard disk, but you cannot delete files from any device.

- ❖ Select device - Contains the device names /floppy, /cdrom and /flashdisk. Select a device from/to which you want to copy files. **Please double click the device option twice to mount the device.**
- ❖ List Directories - Shows the list of directories of the selected device after double clicking it.
- ❖ Floppy/cdrom/Flashdisk - Shows the contents of the selected directory from the “List directories” field after double clicking it.
- ❖ Hard disk - Shows the contents of a directory called “/studiofun”.
- ❖ Add (>>) - Click to copy selected files from a device to hard disk.
- ❖ Add (<<) - Click to copy selected files from hard disk to a device.
- ❖ Remove - Click to delete files from hard disk.
- ❖ Exit - Click to quit the application.



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## **WarpSpeeder**



### **Introduction**

[ WarpSpeeder™ ], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [ WarpSpeeder™ ] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

### **System Requirement**

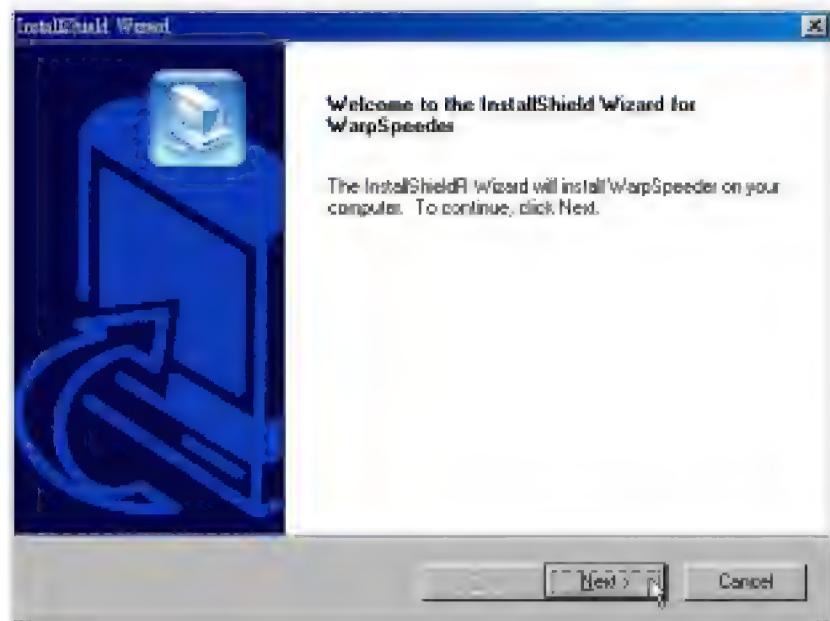
OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

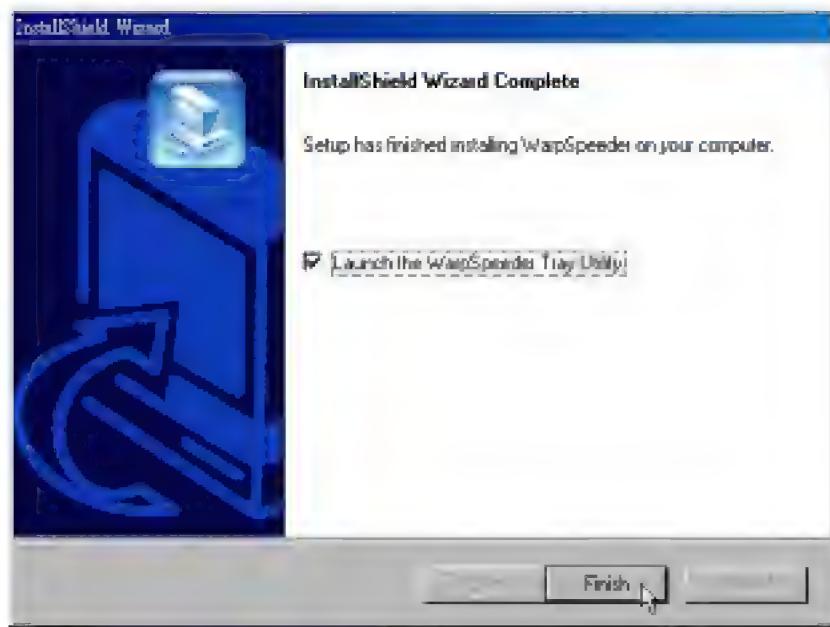
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## Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click "Finish" button.



## Usage

*The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.*

[WarpSpeeder™] includes 1 tray icon and 5 panels:

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



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This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



## 2. Main Panel

If you click the tray icon, [ WarpSpeeder™ ] utility will be invoked. Please refer do the following figure; the utility's first window you will see is Main Panel.

Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Duck walking => overclock percentage from 100% ~ 110 %

Duck running => overclock percentage from 110% ~ 120%

Duck burning => overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



#### 4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

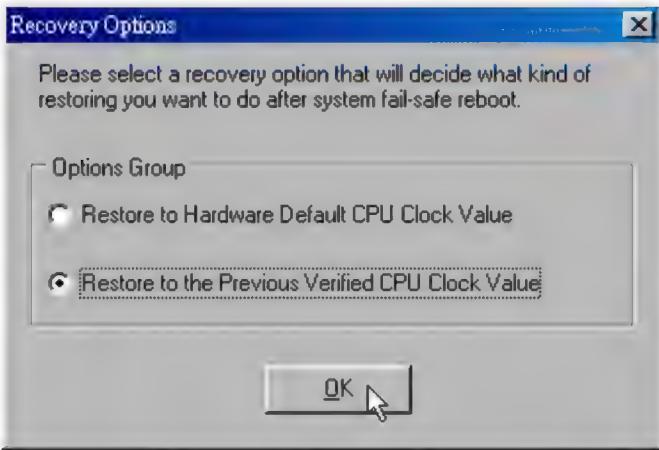


#### Overclock Panel contains these features:

- "-3MHz button", "-1MHz button", "+1MHz button", and "+3MHz button": provide user the ability to do real-time overclock adjustment.

*Warning: Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [ WarpSpeeder™ ] automatically gets the best result for you.*

- "Recovery Dialog button": Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. "Auto-overclock button": User can click this button and [ WarpSpeeder™ ] will set the best and stable performance and frequency automatically. [ WarpSpeeder™ ] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.
- d. "Verify button": User can click this button and [ WarpSpeeder™ ] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

*Note: Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color( 24/32 bit ) that is required for Direct3D rendering.*

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## 5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



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## 6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [ WarpSpeeder™ ] utility.



*Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [ WarpSpeeder™ ] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [ WarpSpeeder™ ] utility more robust.*

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## Trouble Shooting

PROBABLE	SOLUTION
No power to the system at all; power light doesn't illuminate; fan inside power supply does not turn on. Indicator light on keyboard does not turn on.	* Make sure power cable is securely plugged in. * Replace cable. * Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	* Using even pressure on both ends of the DIMM, press down firmly until the module snaps back in places.
System does not boot from hard disk drive, but it can be booted from CD-ROM drive.	* Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. * Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	* Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	* Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	* Set master/slave jumpers correctly. * Run SETUP program and select correct drive types. Call drive manufacturers for compatibility with other drives.
Error message reading "SECTOR NOT FOUND" or other error messages not allowing certain data to be retrieved.	* Back up any salvageable data. Then, low-level format, partition, and high-level format the hard drive. Re-install all saved data when completed.
Screen is blank.	* Check the power connectors to monitor and to system. Make sure monitor is connected to display card.

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<b>PROBABLE</b>	<b>SOLUTION</b>
Screen goes blank periodically.	* Disable screen saver.
<b>PROBABLE</b>	<b>SOLUTION</b>
Memory problem.	* Reboot computer. Reinstall memory, and make sure that all memory modules are installed in correct sockets.
<b>PROBABLE</b>	<b>SOLUTION</b>
Computer virus.	* Use anti-virus programs to detect and clean viruses.
<b>PROBABLE</b>	<b>SOLUTION</b>
Keyboard failure.	* Reconnect keyboard. Check keys again. If no improvement, replace keyboard.
<b>PROBABLE</b>	<b>SOLUTION</b>
No display on screen.	* If possible, connect monitor to another system. If no color still, replace monitor.
<b>PROBABLE</b>	<b>SOLUTION</b>
C: drive failure.	* Check hard drive cable.
<b>PROBABLE</b>	<b>SOLUTION</b>
Missing operating system on hard drive.	* Run setup and select correct drive type.
<b>PROBABLE</b>	<b>SOLUTION</b>
Certain keys do not function.	* Replace keyboard.
<b>PROBABLE</b>	<b>SOLUTION</b>
Keyboard is locked, no keys function.	* Unlock keyboard.

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06/18/2003